

FIG. 1A

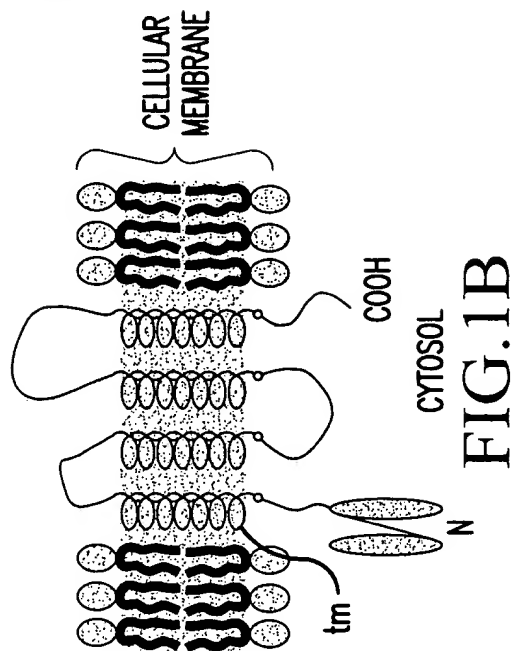


FIG. 1B

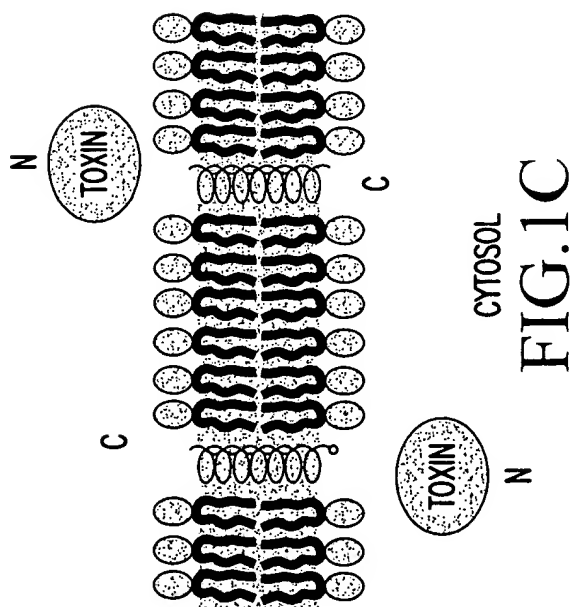


FIG. 1C

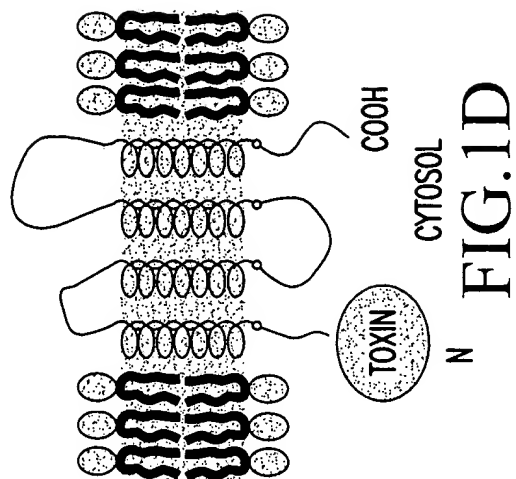


FIG. 1D

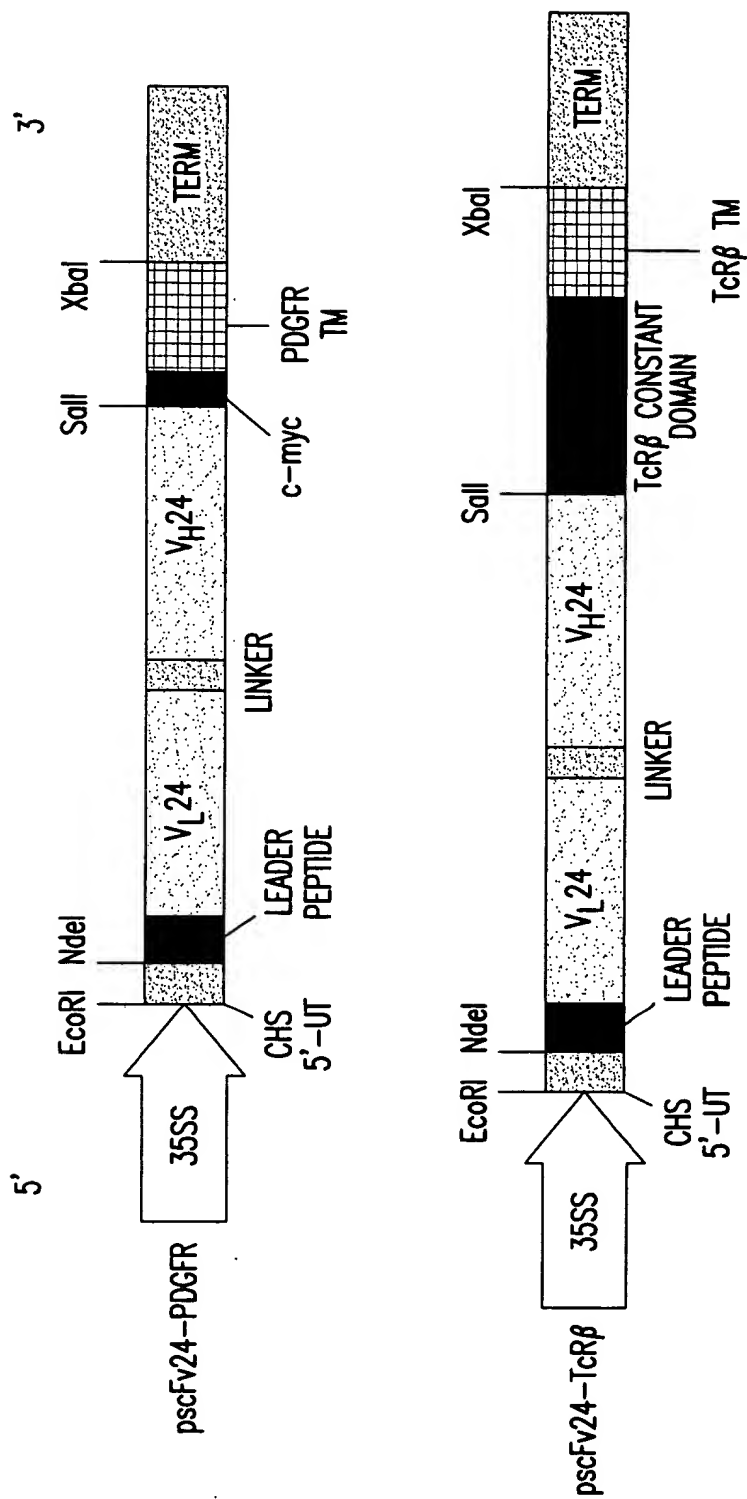


FIG.2



REPLACEMENT SHEET
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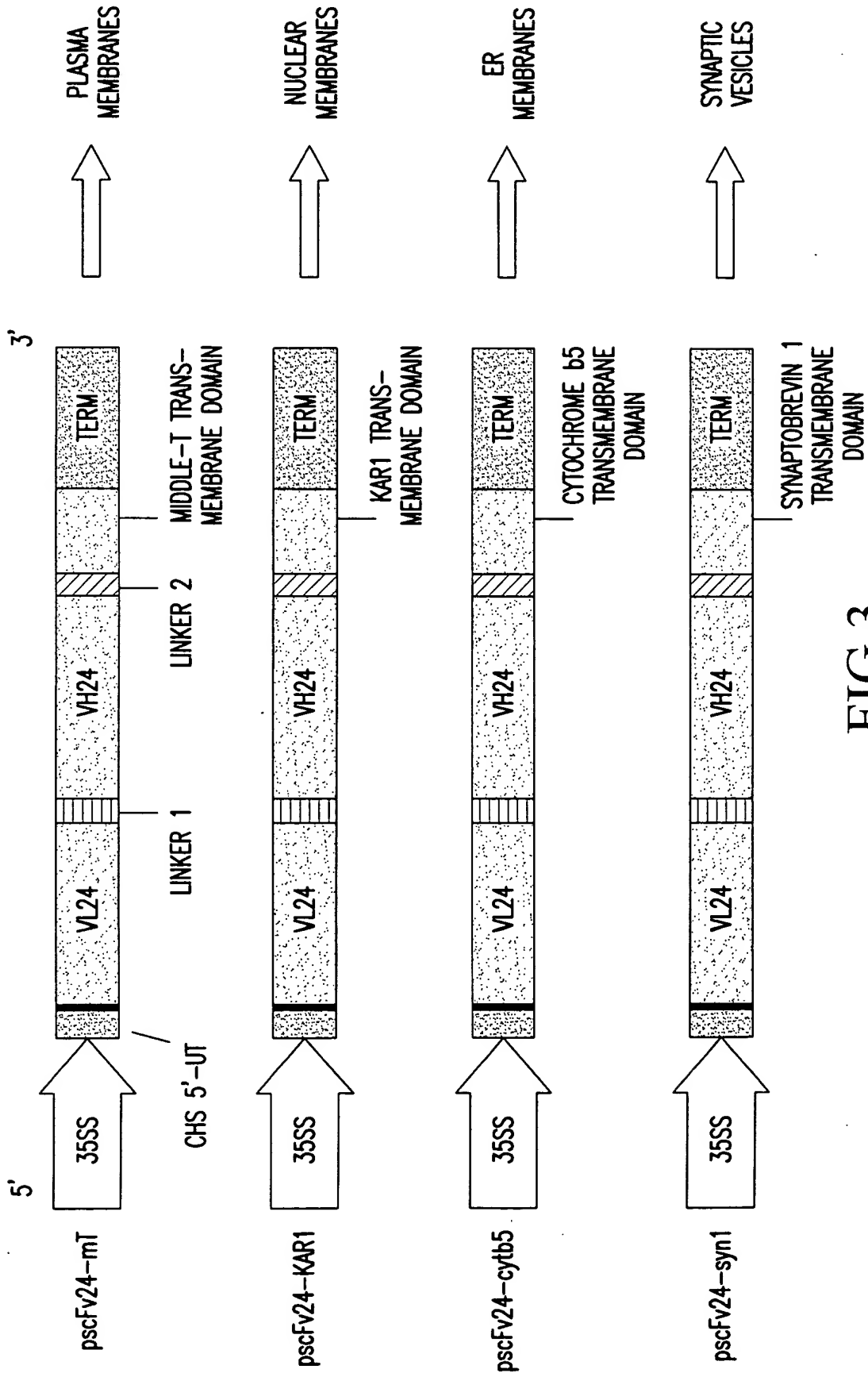


FIG.3

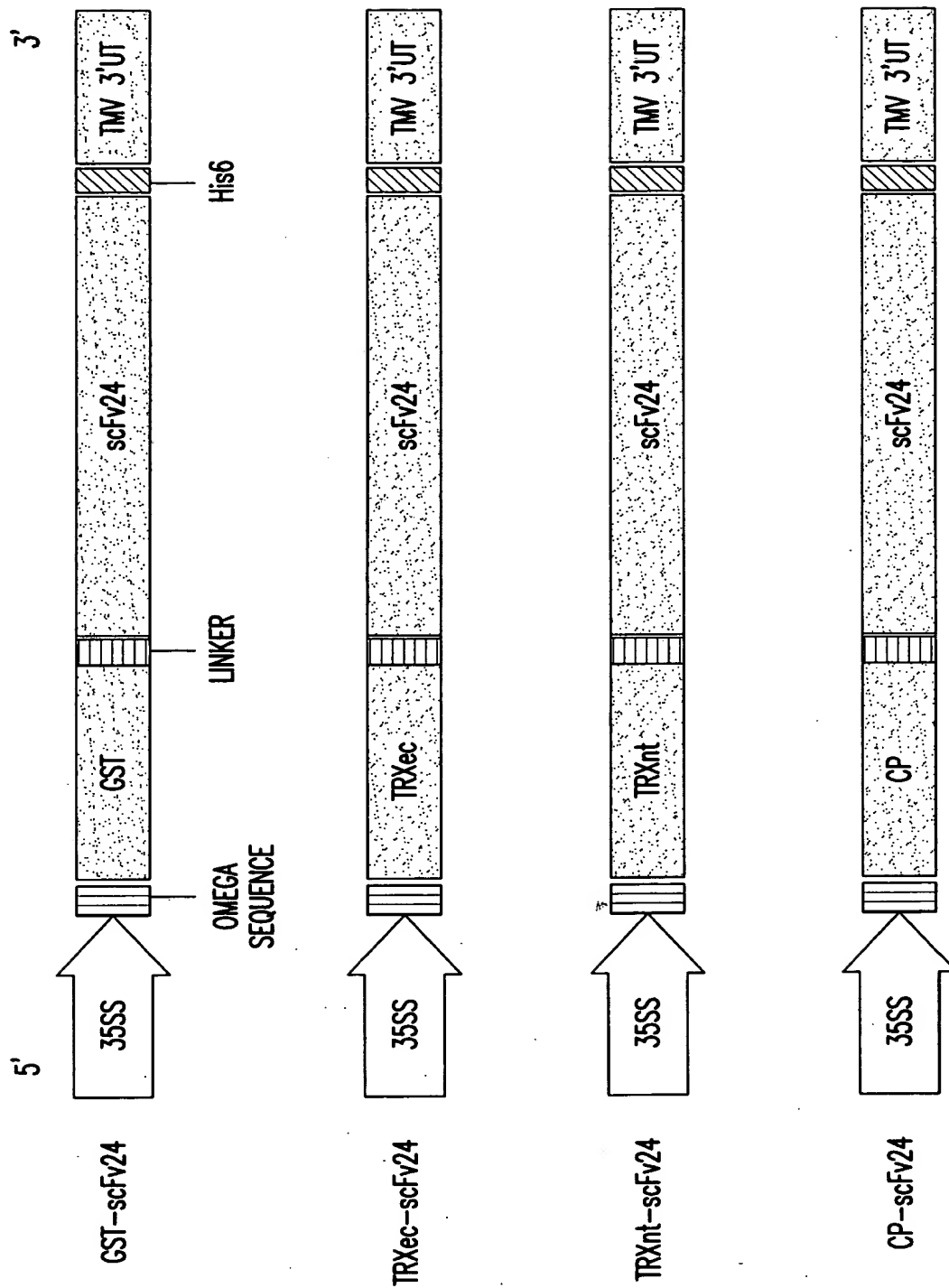
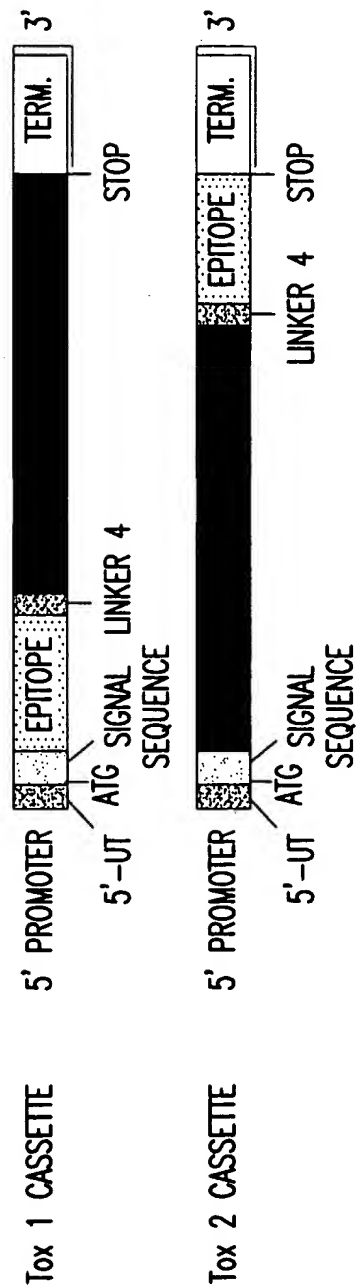
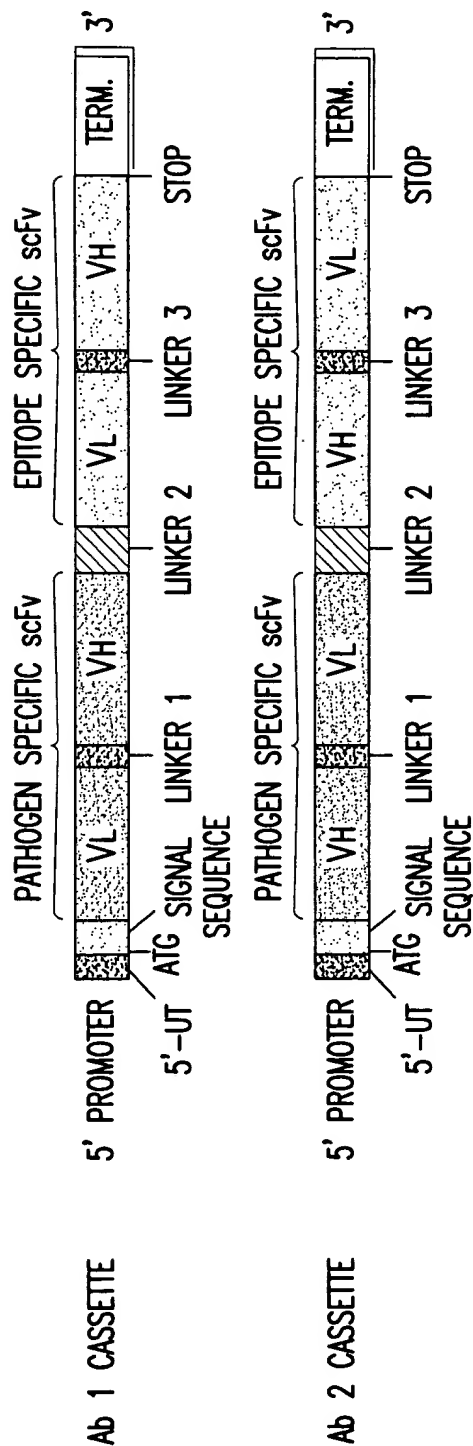
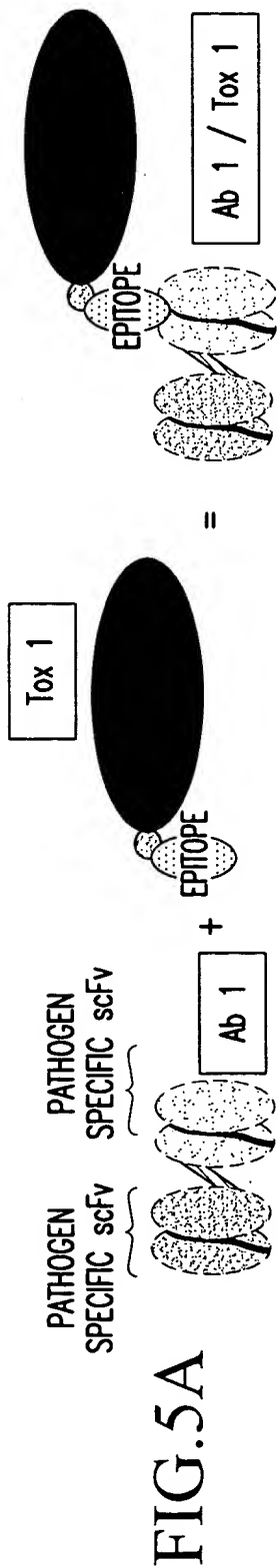


FIG.4

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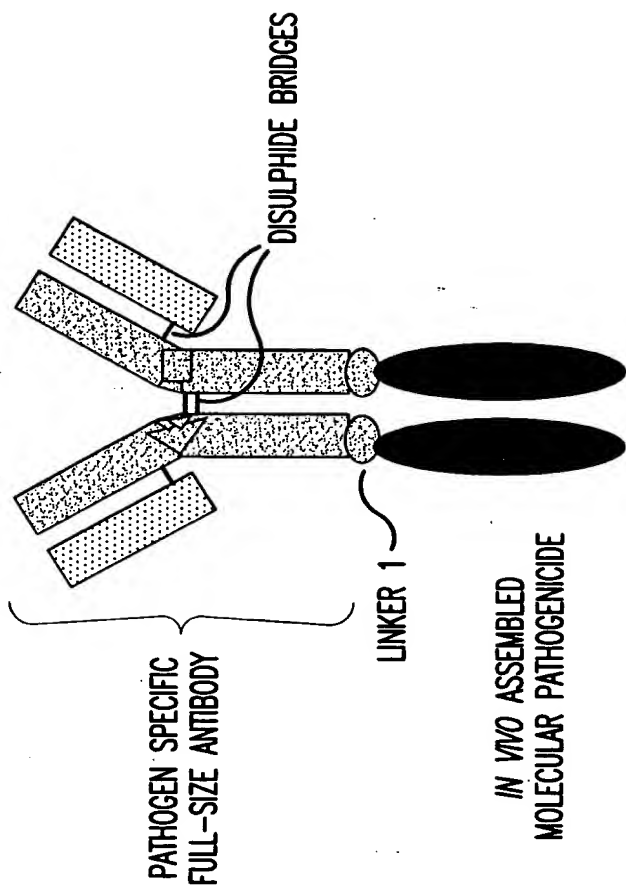


FIG.6A

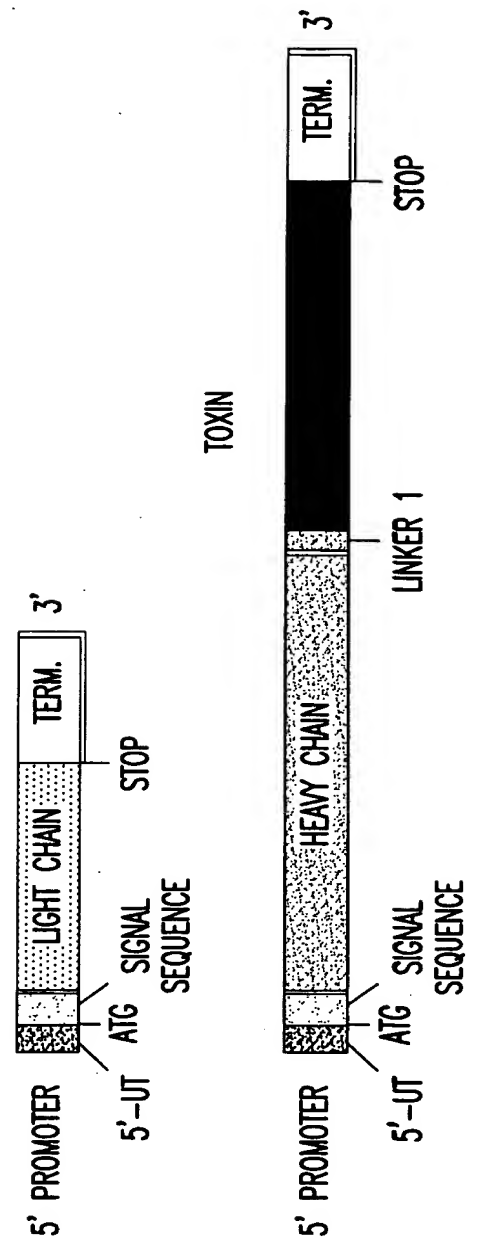
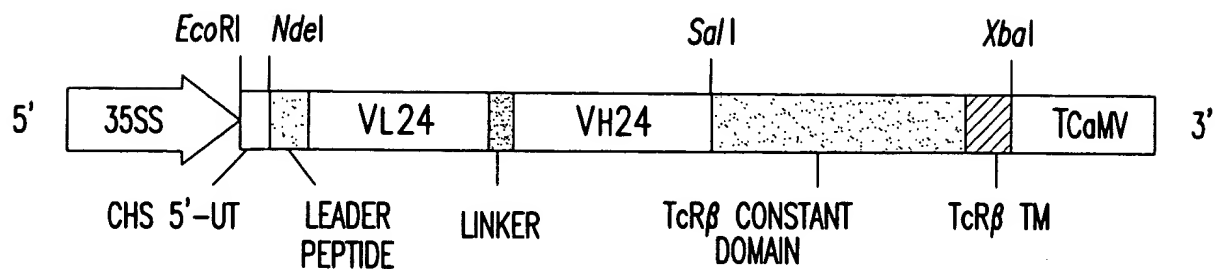


FIG.6B

REPLACEMENT SHEET

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pscFv24-TcRβ

FIG.7

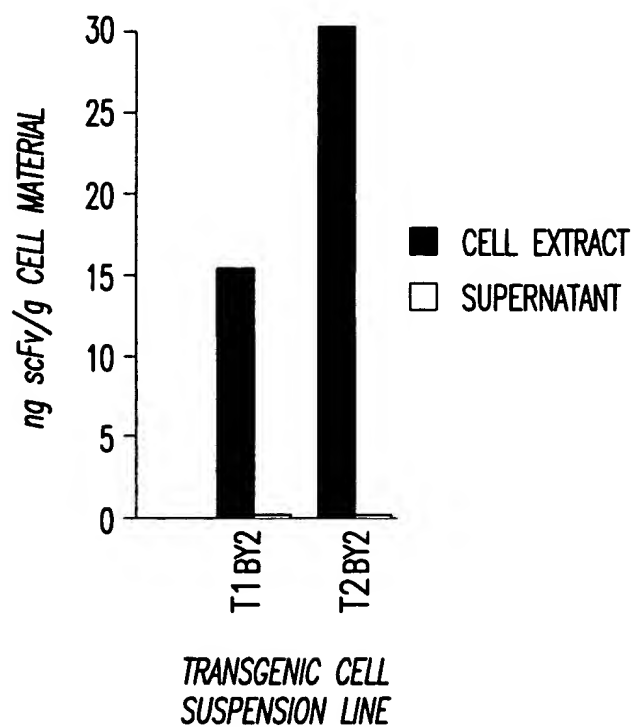


FIG.8

REPLACEMENT SHEET

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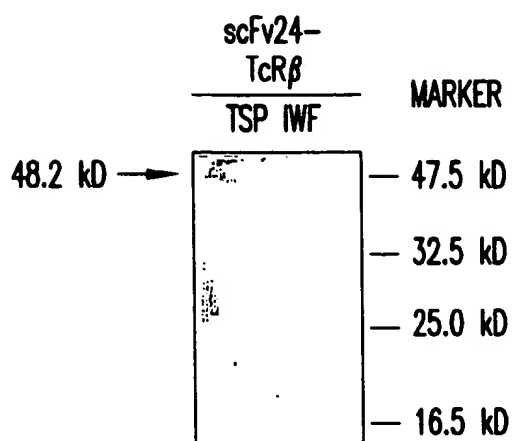


FIG.9

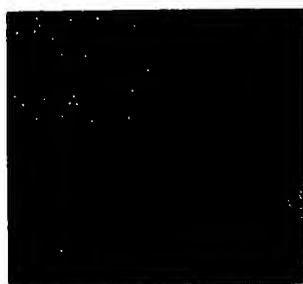


FIG.10A



FIG.10B



FIG.10C



FIG.10D

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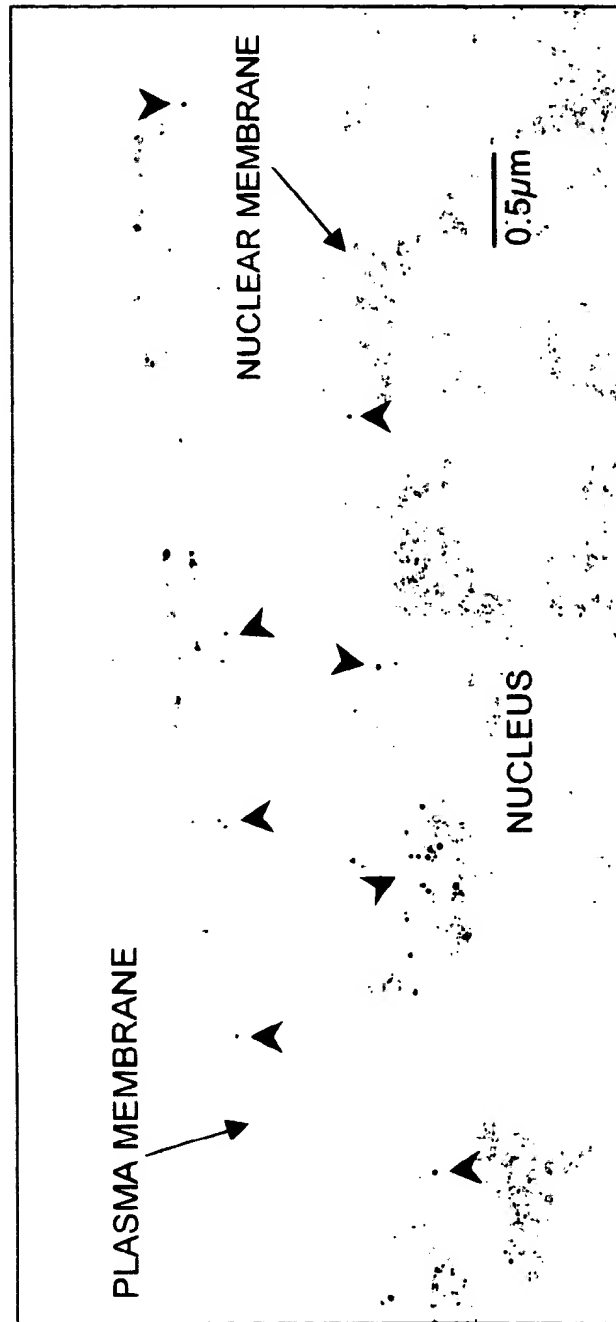


FIG.11

REPLACEMENT SHEET

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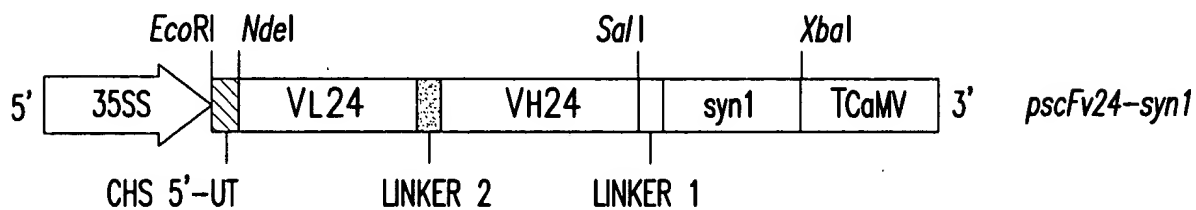
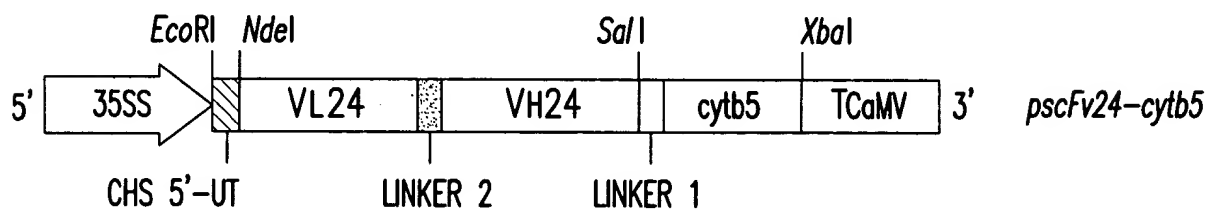
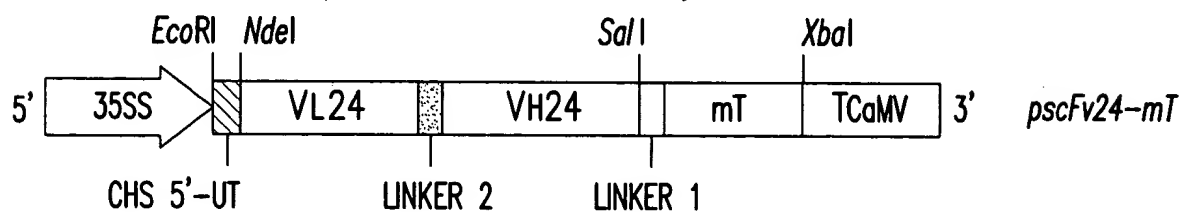
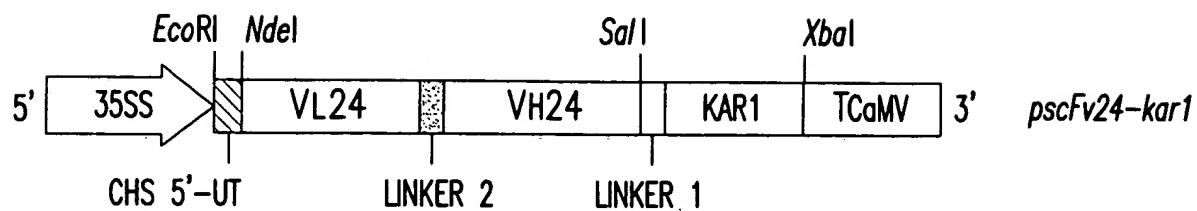


FIG.12A

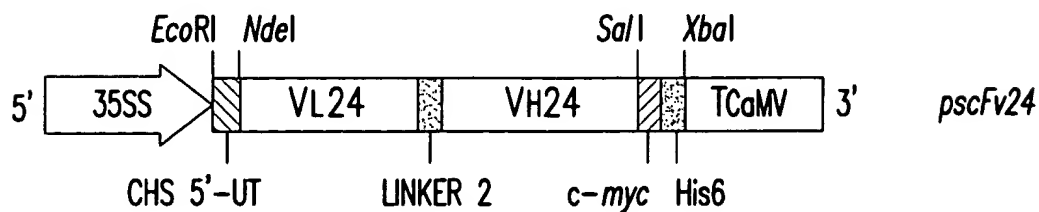
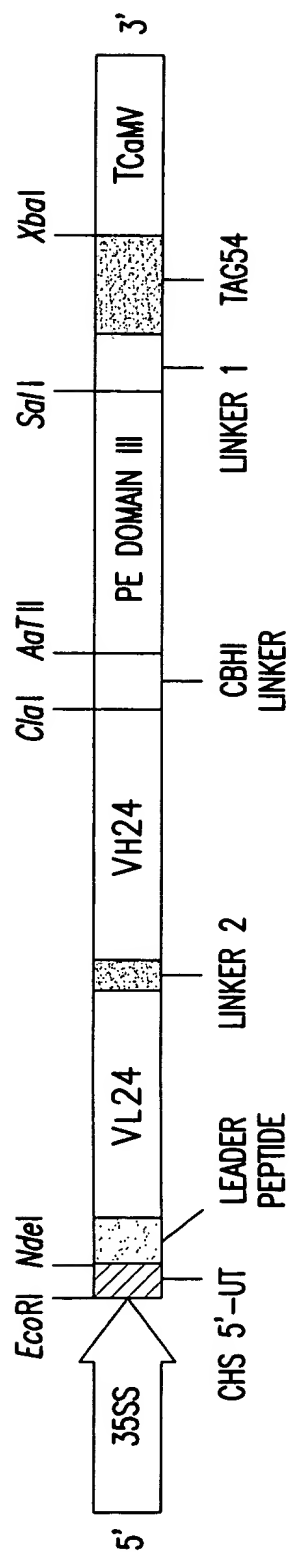


FIG.12B



pscFv24-PE400

FIG.13

REPLACEMENT SHEET

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scFv24 MQIVLTQSPA IMSASPGEKV TMTCSASSSV SKMQWYQQKS GTSPKRWIYD
 Framework I CDR LI Framework II

scFv24 TSKLASGVPG RFSGSGSGTS YSLTISSMEA EDAATYYCQQ WSSNPLTFGA
 CDR LII Framework III CDR LIII

scFv24 GTKLEIKGST SGSGKSSEGG GEVQLQQSGP ELVNPASVK MSCKASGYTF
 Framework IV Linker 212 Framework I

scFv24 ITYVMHVKQ KPGQGLEWIG YINPNKDGTK FNEKFKGKAT LTSDKSSNTA
 CDR LI Framework II CDR LII Framework III

scFv24 YMELSSLTSE DSAVYYCARD YDYDWFAYWG QGTLVTVSAV DGGGSMKRML
 Framework III CDR LIII Framework IV Linker RNase

RnaseE INATQQEELR VALVDGQRLY DLDIESPGHE QKKANIYKGG ITRIEPSLEA
E. coli RNase E gene --->

RnaseE AFVDYGAERH GFLPLKEIAR EYFPANYSAH GRPNIKDVL R EGQEVIVQID

RnaseE KEERGNKGAA LTFISLAGS YLVLMNNPR AGGISRRIEG DDRTELKEAL

RnaseE ASLELPEGMG LIVRTAGVGK SAEALQWDL FRLKHWEAIK KAAESRPAPF

RnaseE LIHQESNVIV RAFRDYLRQD IGEILIDNPK VLELARQHIA ALGRPDFSSK

RnaseE IKLYTGEIPL FSHYQIESQI ESAFQREVRL PSGGSIVIDS TEALTAIDIN

RnaseE SARATRGGDI EETAFTNLE AAEIARQLR LRDLGGLIVI DFIDMTPVRH

RnaseE QRAVENRLRE AVRQDRARIQ ISHISRFGLL EMSRHRLSPS LGESSHHVCP

RnaseE RCGTGTVRD NESLSLSILR LIEEEALKEN TQEVHAIVPV PIASYLLNEK

RnaseE RSAVNAIETR QDGVRCVIVP NDQMETPHYH VVRVRKGEET PTL SYMLPKL

RnaseE HEEAMALPSE EEFAERKRPE QPALATFAMP DVPPAPTPAE PAAPVVAPAP

RnaseE KAAPATPAAP AQPGLLSRFF GALKALFSGG EETKPTEQPA PKAEAKPERQ

RnaseE QDRRKPRQNN RRDRNERRDT RSERTEGSDN REENRRNRRQ AQQQTAETRE

RnaseE SRQQAQEVTEK ARTADEQQAP RRERSRRRND DKRQAQQEAK ALNVEEQSVQ

RnaseE ETEQEERVRP VQPRRKQRQL NQKVRYEQSV AEEAVVAPVV EETVAAEPIV

RnaseE QEAPAPRTEL VKVPLPVVAQ TAPEQQEENN ADNDRNGGMP SFSPLASSPA

RnaseE RKWSASSSL S

FIG.14

REPLACEMENT SHEET

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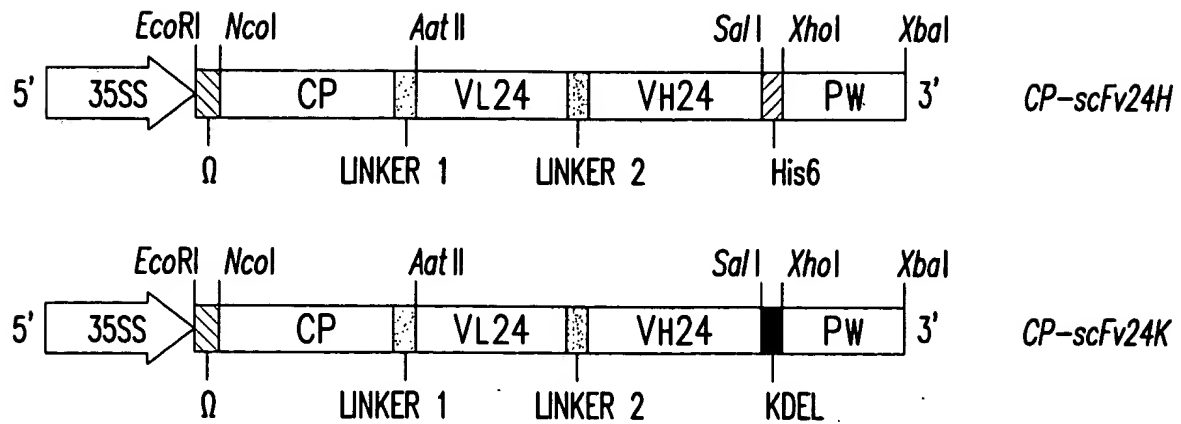


FIG.15A

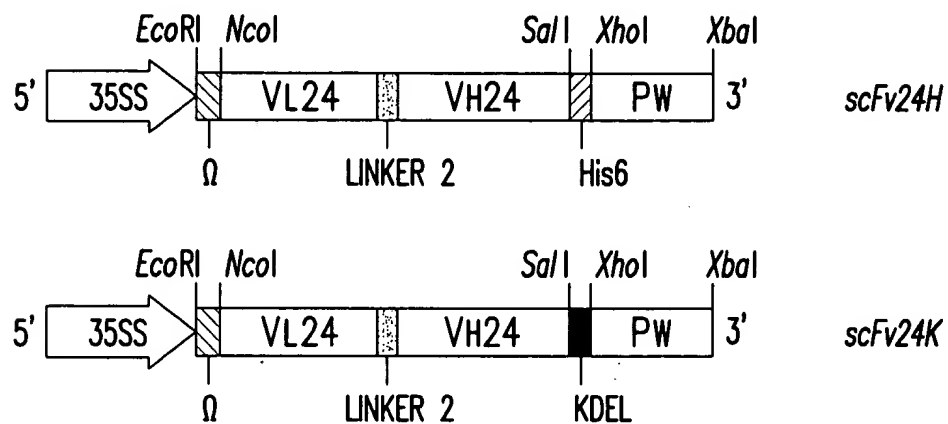


FIG.15B

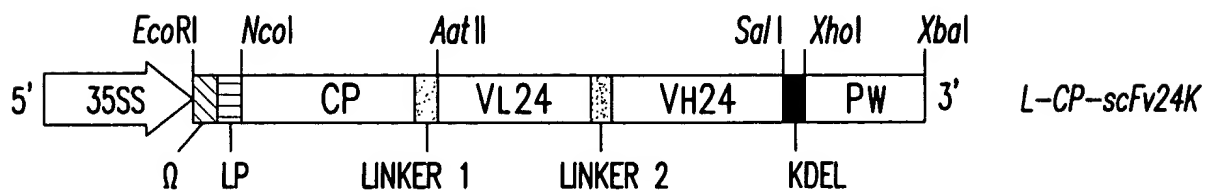


FIG.15C

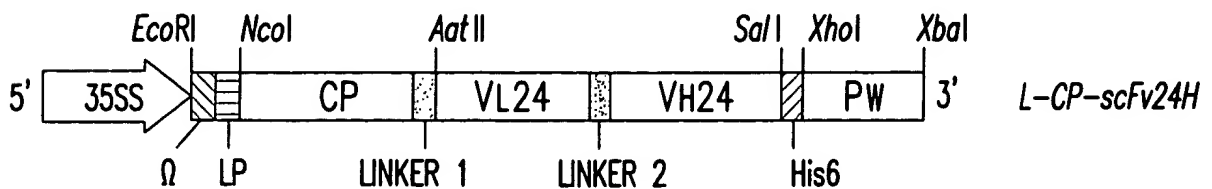


FIG.15D

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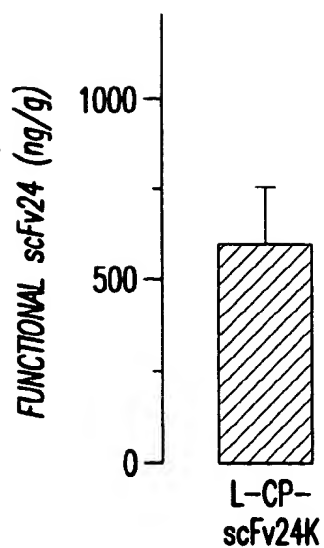


FIG.16

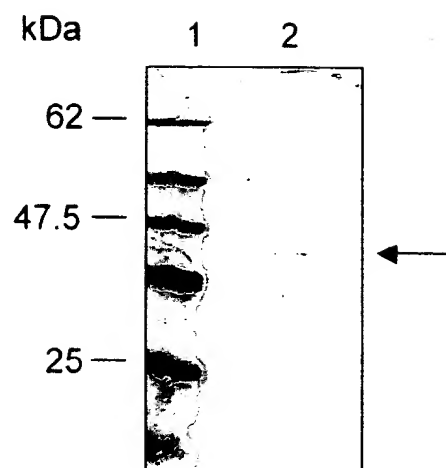


FIG.17

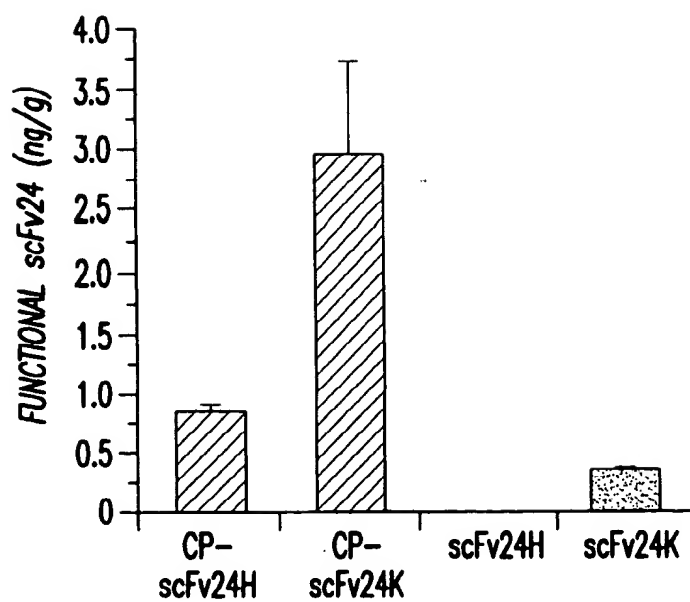


FIG.18

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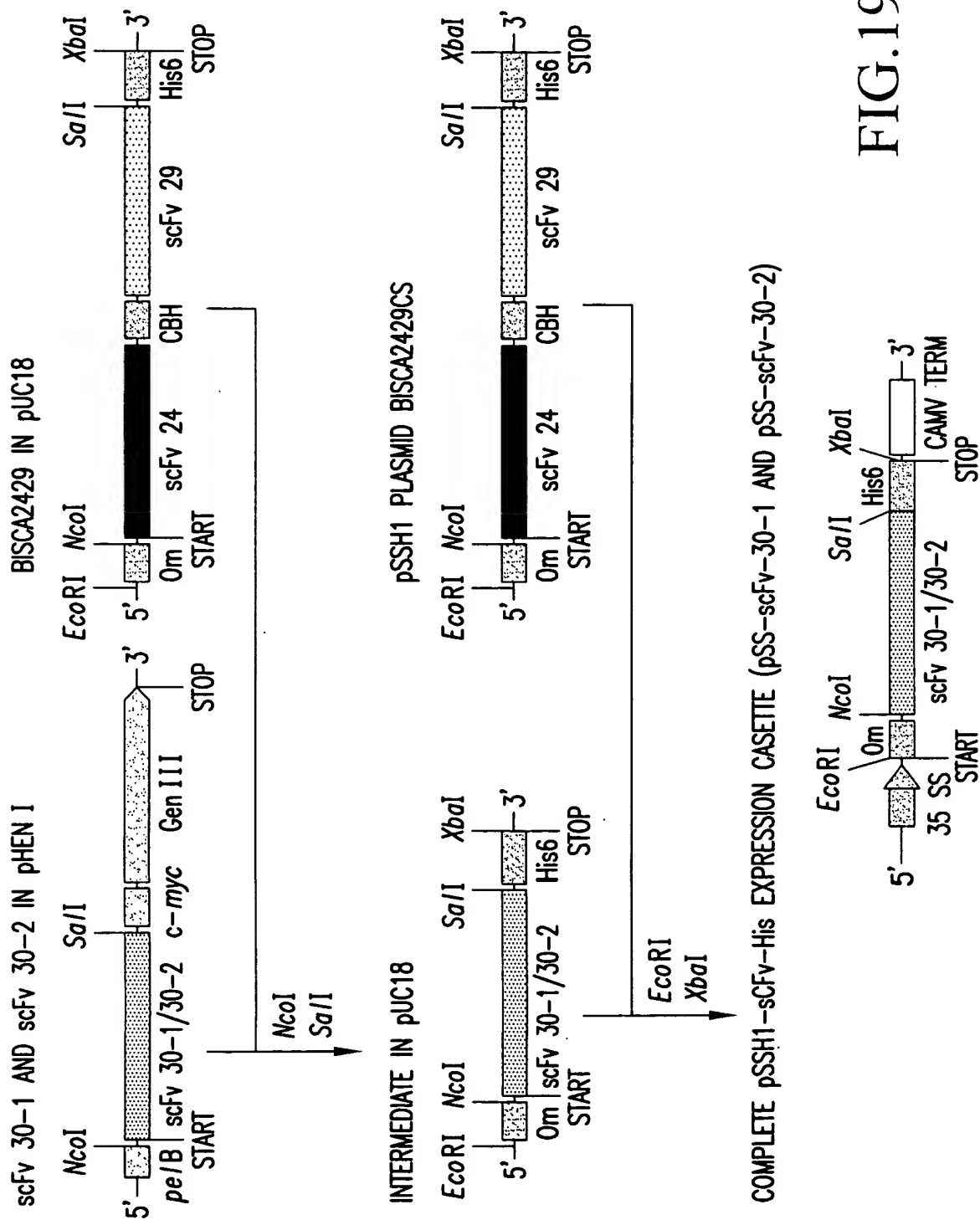
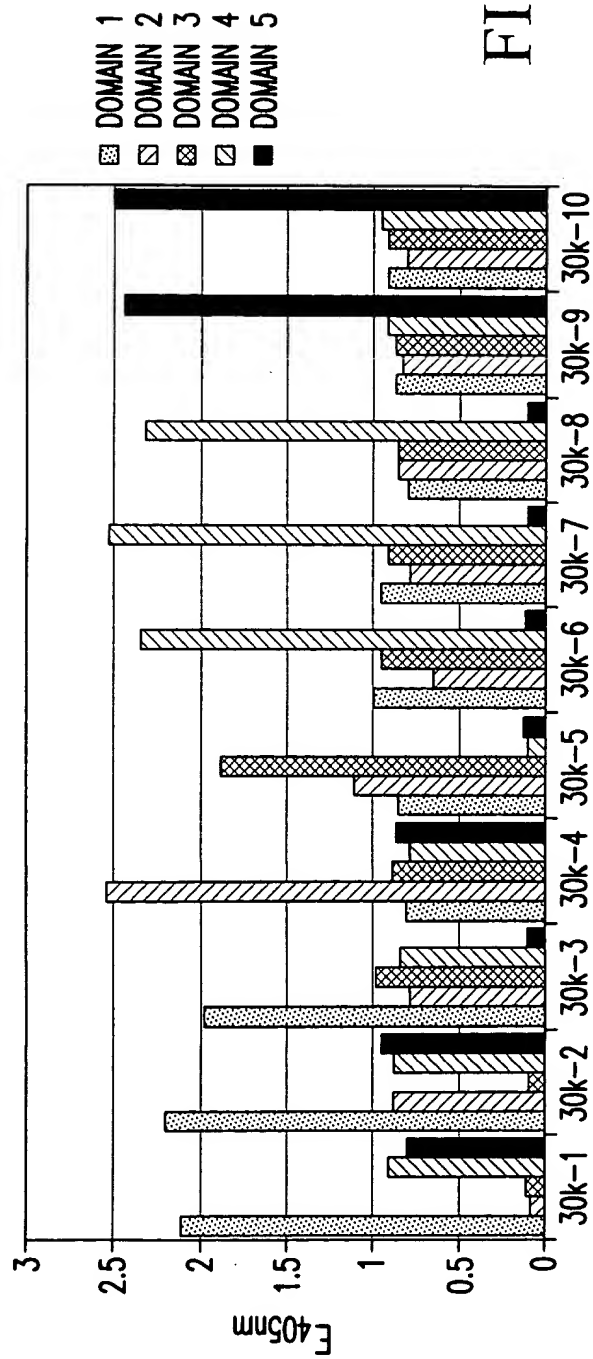
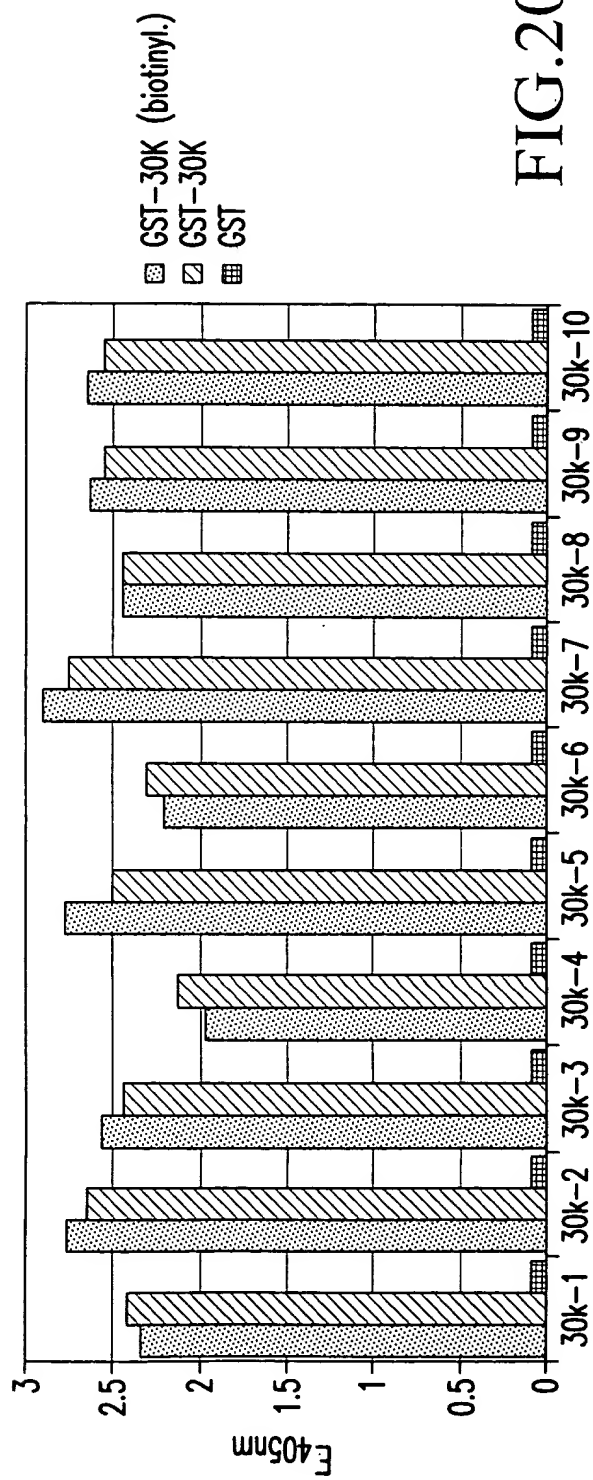


FIG.19



scFv 30-1	--EVHCKQSG	AELVKPGASV	KLSCRASDYT	FTSYMYMWVK	QRPQGQGLEWI	
scFv 30-2	--EVKLQQSG	AELVKPGASV	KISCKASDYS	FTGYNNMNWVK	QSHGKSLEWI	
			Framework I	CDR H1	Framework II	
scFv 30-1	GEIKPSGNGI	NENEKFKSKA	TLTSDYSSST	AYMQLSSLTS	EDSAVYYCTR	
scFv 30-2	GNINPYYGSI	SYNQKFKGKA	TLTVDKSSST	AYMQLNSLTS	EDSAVYYCAV	
		CDR HII		Framework III		
scFv 30-1	SGNAMD---	Y	WGQGTTTVTS	SGGGSGGGGG	SGGGGSDIVL	TLSPATLSVT
scFv 30-2	GGNYVDWFAY		WGQGTTLVTVS	SGGGSGGGGG	SGGGGSDILL	TQSPLSLPVS
		CDR HIII	Framework IV	Linker (Gly ₄ Set) ₃		
scFv 30-1	PGDRVSLSCR	ASQSISNFLH	----	WYQQK	SHESPRLLIK	YTSQSI
scFv 30-2	LGDHASISCR	SSQSLVHSNG	NTYLHWYLN	PGQSPKLLIY	KVSNRFS	GIP
		Framework I	CDR LI	Framework II	CDR LII	
scFv 30-1	STFSGSGSGT	DFTLSINSVD	TEDFGMYFCQ	QNSWPHRF	FG	SGIKLELKSA
scFv 30-2	DRFSGSGSGT	DFTLKISRVE	AEDLGVYFCS	QSTHVPYTFG	GGTKLELKRA	
		Framework III		CDR LIII	Framework IV	
scFv 30-1	VDAAAEQKLI	SEEDLNGAA*				
scFv 30-2	VDAAAEQKLI	SEEDLNGAA*				
						c-myc tag

FIG.21

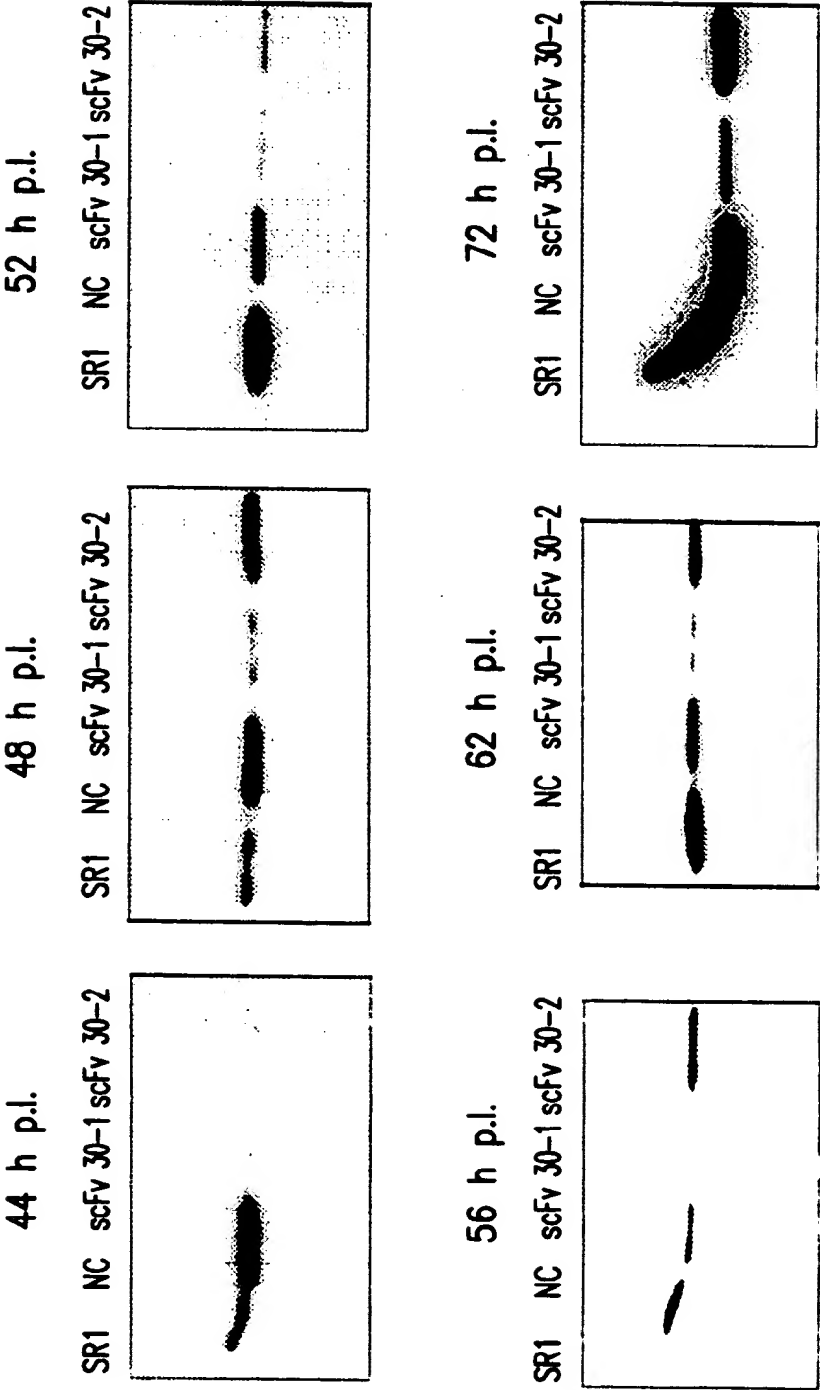


FIG.22

REPLACEMENT SHEET

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MAEVQLQQSG AELVKPGASV KMSCKASGYT FTNYNMHWVK QTPGQGLEWI
GAIYPRNGDT SYNQKFKGKA TLTADKSSST AYMQLSSLTS EDSAVYYCAR
PDVWGAGTLL TVSAGAGPTS GSGKPGPEG STKGAPDVLMTQAPLTLSVT
IGQPASISCK SSQSLLDGDG KTYLNWLLQR PGQSPKRLIY LYSKLDGVP
DRFTGSGSGT DFTLKISRVE AEDLGVYYCW QGTHFPHTFG GGTKLEIKRA
RAVDAAA

AMINOACID SEQUENCE OF scFv-3a-2 DERIVED FROM cDNA

FIG.23A

MAQVTLKESG PGILKPSQTL SLTCSFSGFS LSTSGMGVGW IRQPSGKGLE
WLAHIWDDDD KYYNPSLRSQ LTISKDTSRN QVFLRITNVD TADTATYYCA
RGGYGNDSFP AYWGQGTLT VSSGAGPTSG SGKPGPEGSTKGAPDIVLS
QSPKFMSTSV GDRVSITCKA SQIVRTAVAW FQQKPGQSPK ALIYLASNRH
TGVDPDRFTG GSGTDFTLTI SNVQSEDLAD YFCLQHWNYPTFTGSGTKLE
IKRAVDAAA

AMINOACID SEQUENCE OF scFv 54-1 DERIVED FROM cDNA

FIG.23B

MAQIQLVQSG PELKKPGQTV KISCKASAYT FTDYSMHWVK QAPGKGLKWM
GWINTETGEP TYADDFKGRF AFSLETSAST AYLQINTLKN EDSATYFCAR
GSGFNPHYWGQ GTLVTVSAGA GPTSGSGKPG PEGSTKGAP DIVLSQSPSS
LAVSVGEKVT MSCKSSQSLL YSSNQKNYLA WYQQKPGQSP KLLIYWASTR
ESGVPDRFTG GSGTDFTLT INSVKAEDLA VYYCQYYYSY VTFGAGTKLE
IKRAVDAAA

AMINOACID SEQUENCE OF scFv-3min DERIVED FROM cDNA

FIG.23C

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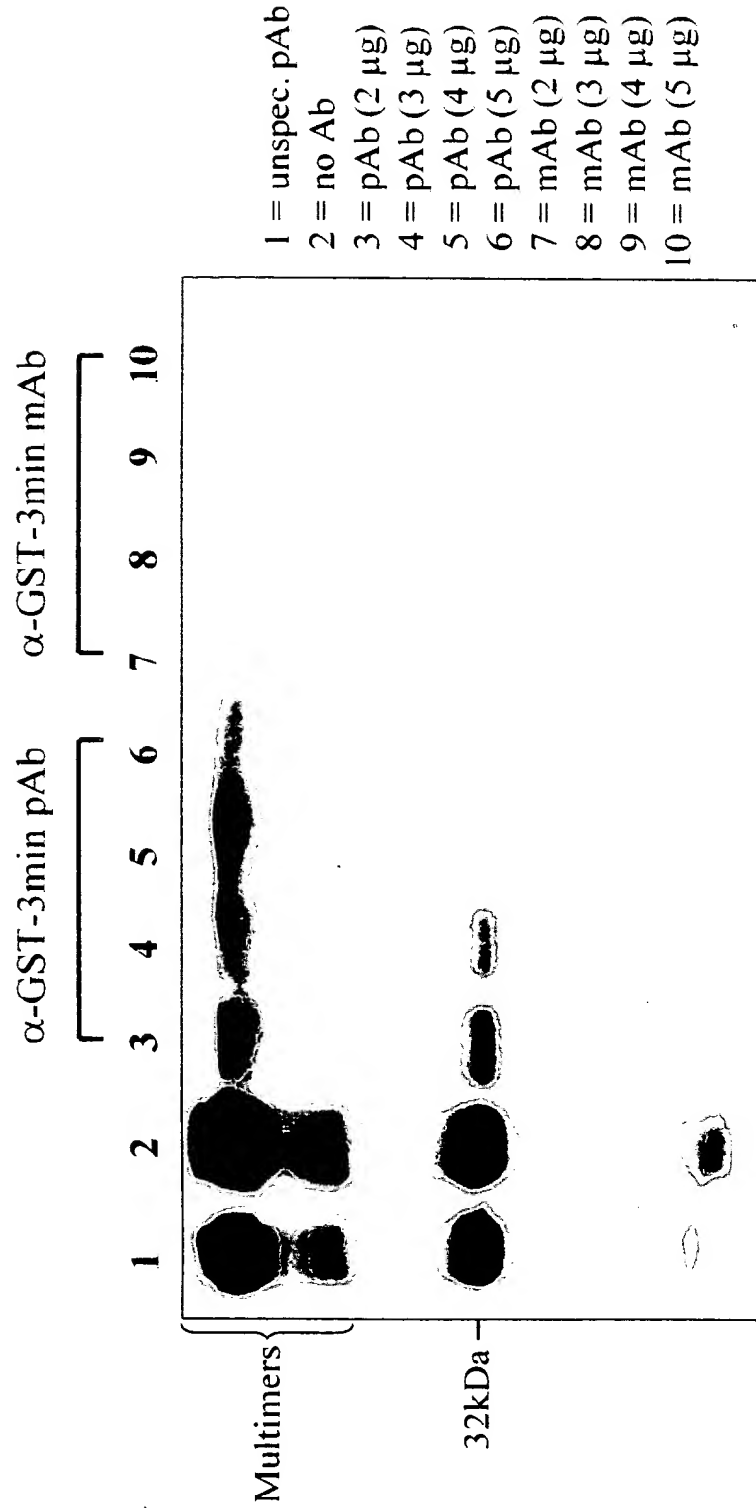


FIG.24

REPLACEMENT SHEET

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(a) TMV-coatprotein: 127 128 129 130 131 132 133 134 135 136 137 138
N L I V E L I R G T G S

pVIII 9aa:

A1: K T D L VC R A T
A2: R I V I C G R V T T
A4: R G T L PA R R G T T
A5: F L R V G R A Q R R D T T Q S
B5: V V D A L G R R E T T
C4: V A G M L G K R G T T
D5: R P W E L L AN R R S E T
E5: P S A L L GT R R S E T
F3: K N D L VS R R A E T
G1: Q I V S A W R E T

pVIII 9aa.Cvs:

B9/G1: C A L PA R H I R S R C
F3: C C Q L PA R R A E T S S C
H1: C I T S Q C R R E S G T W C
H5: C S T T C R R S G T G
H10: C S T T L YK R G T C

consensus-sequence: R V D L PA R E T

(b) 54K-protein: 402 403 404 405 406 407 408 409 410 411 412 413
K H I K D W E H L E E F

A2/A9/B8/C9: K R K D G E H W L
A6/B5/F8/H1: R Q A K S W S S L
G5: Y Q A K E W S N L
H10: K D W E H R V P S

consensus-sequence: K D W E/S H L

(c) GST-3min: -6 -5 -4 -3 -2 -1 +1 +2 +3 +4 +5 +6
P K S D P Q M G K R R R

pVIII 9aa:

A8: H P R P Q L A S L
C2: R H P D P Q S S S
E7: F T D P Q L H P Q
F5: K Q D P Q Q L Q K Q
F8: V P D S Q Q L E W P
G7: H C D P Q Q L Y Q R
H1: F K D P Q Q M F R R H C
H5: F K D G Q L R P Q

pVIII 9aa.Cys:

A4: C P D P Q L R L H R C
A5: C P D P Q L N S L T R C
A7/B10/H4: C P D P Q L S S L H R C
A8: C P D P Q L R T L H R C
A9: C P D P Q L T S L H R C
G4: C P D P Q L S S L H R C
H6: C P D A Q L S G T R C

consensus-sequence: H P D P Q L S L H R

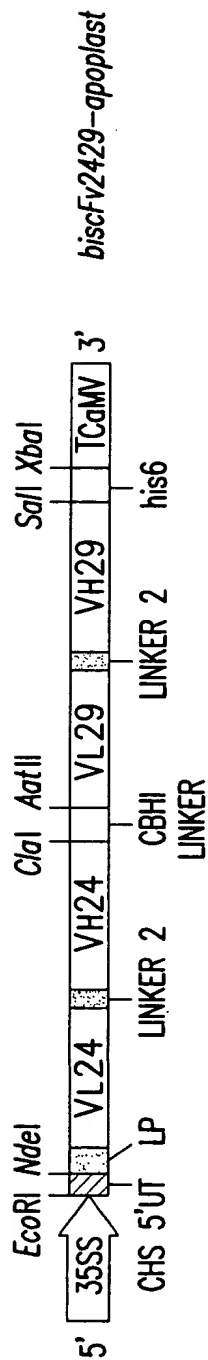


FIG.26A

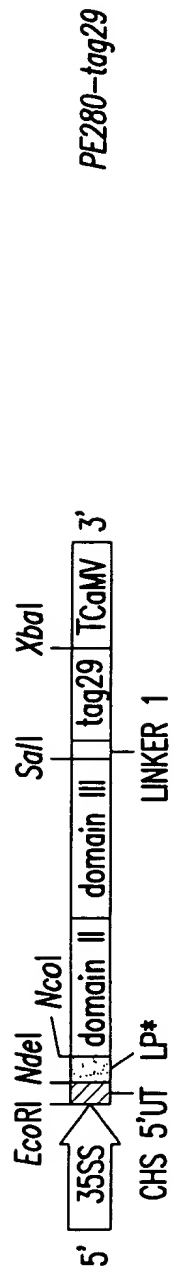


FIG.26B

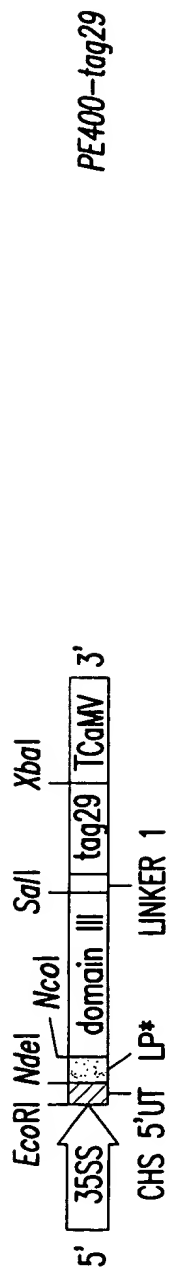


FIG.26C



FIG.26D

REPLACEMENT SHEET

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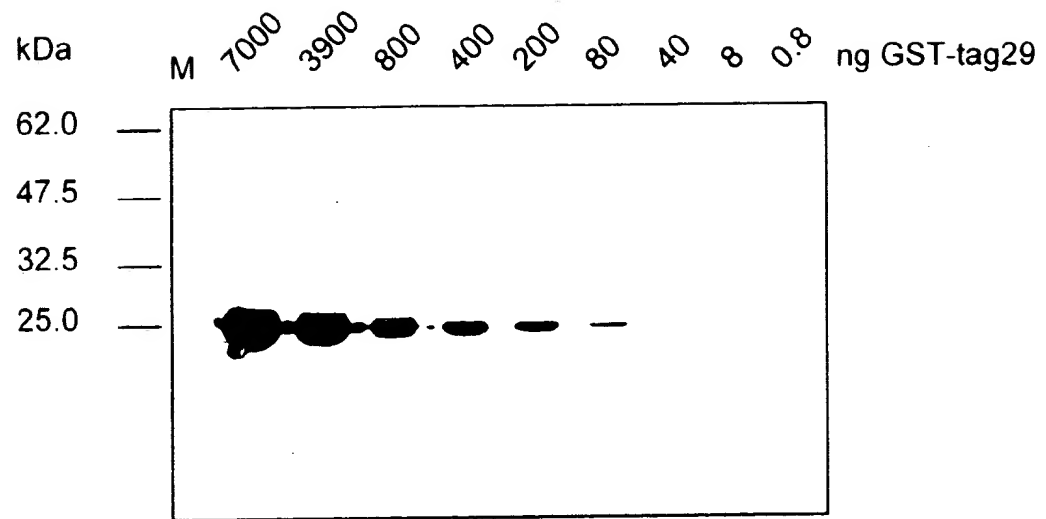


FIG.27A

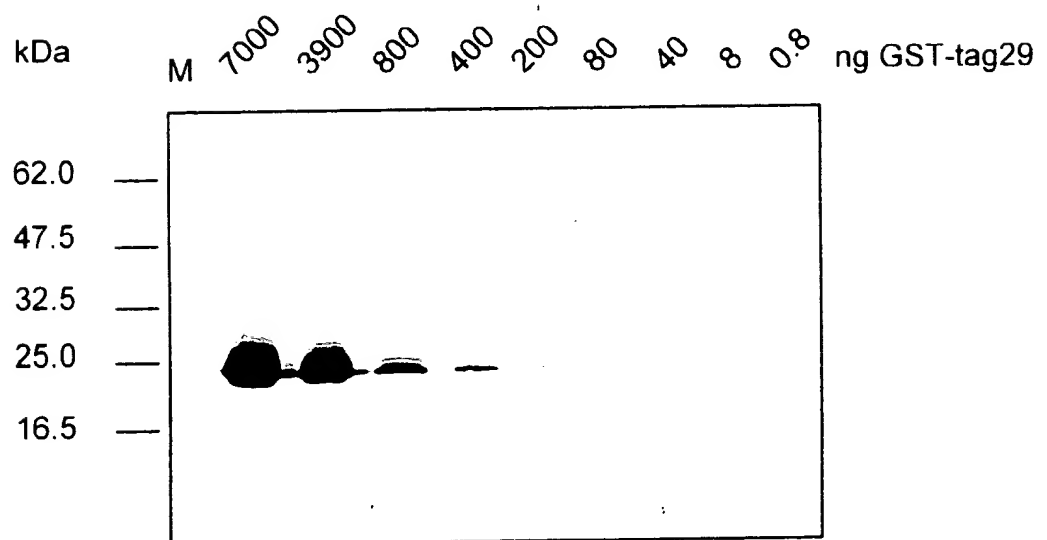


FIG.27B

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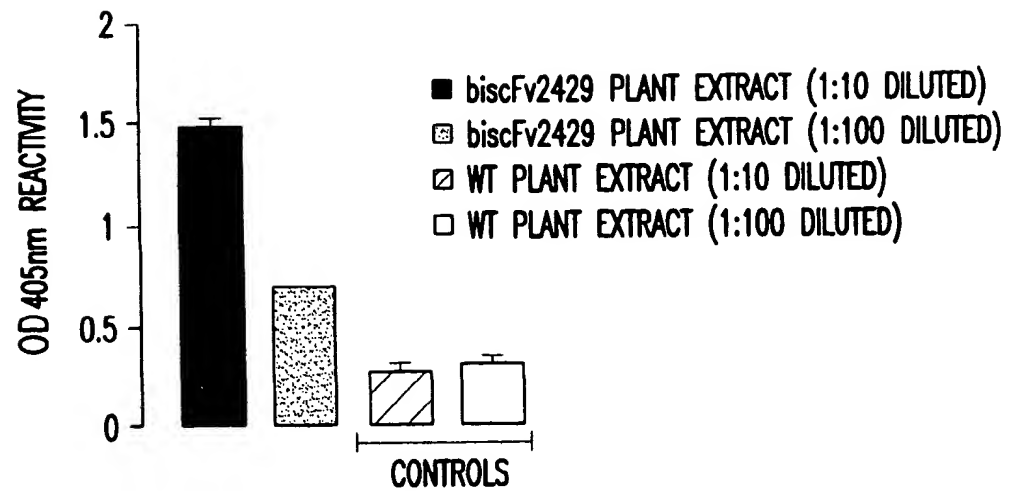


FIG.28

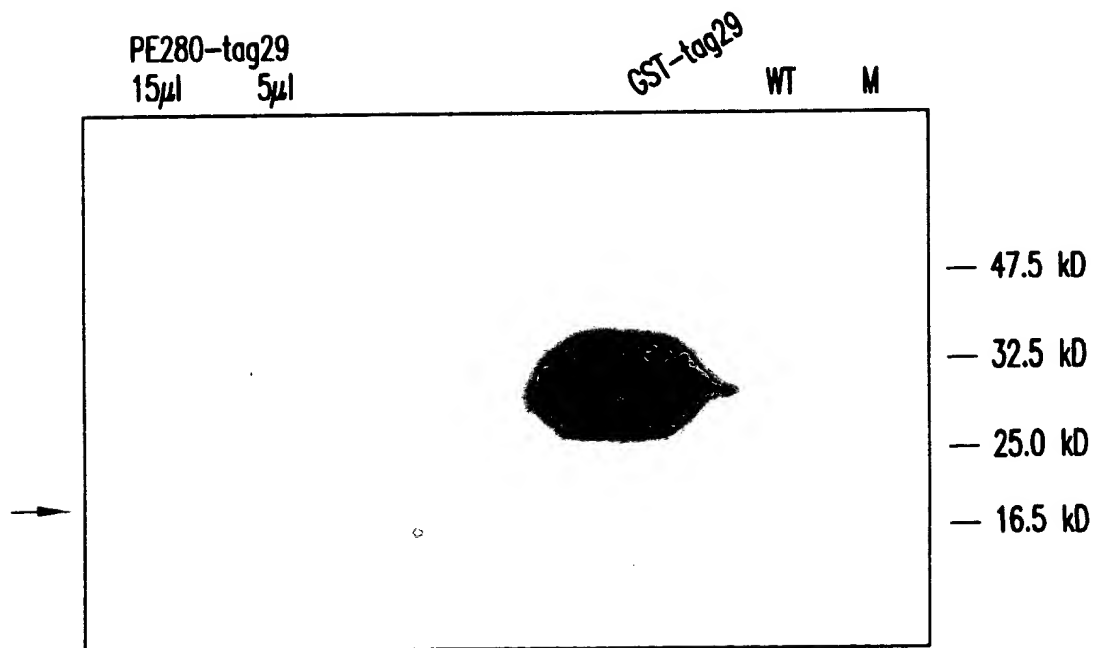
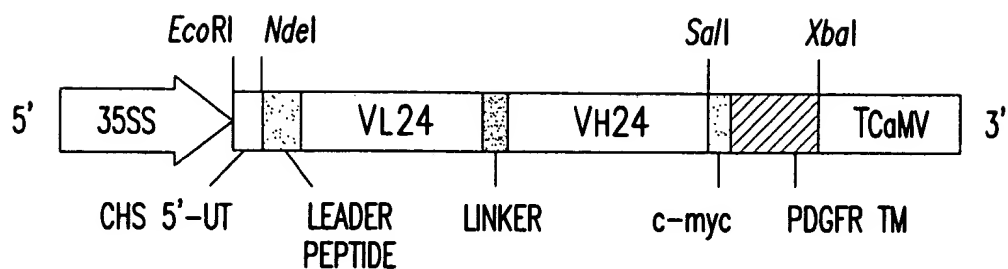


FIG.29

REPLACEMENT SHEET

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pscFv24-PDGFR

FIG.30

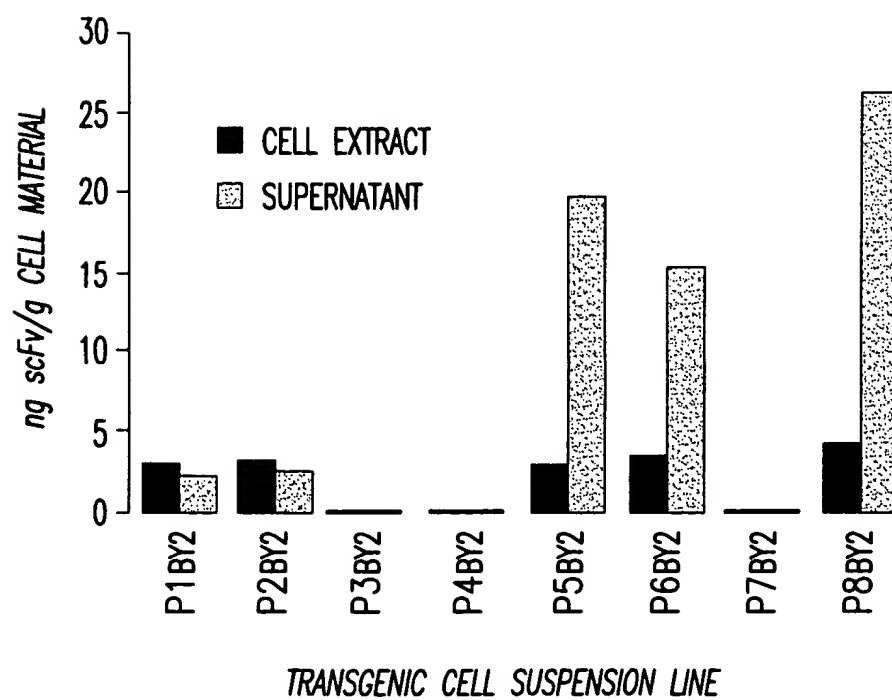


FIG.31

REPLACEMENT SHEET

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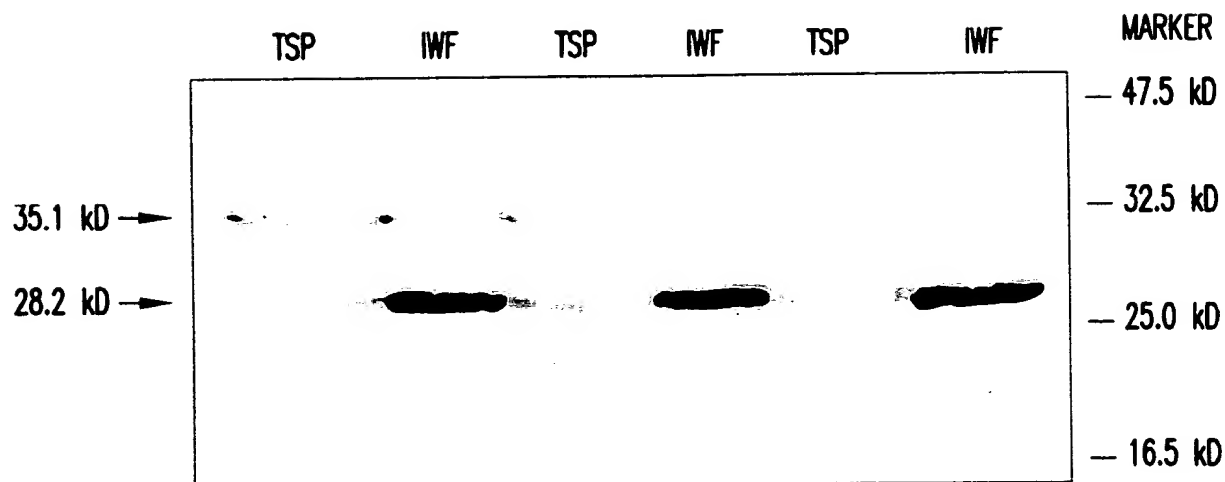


FIG.32A

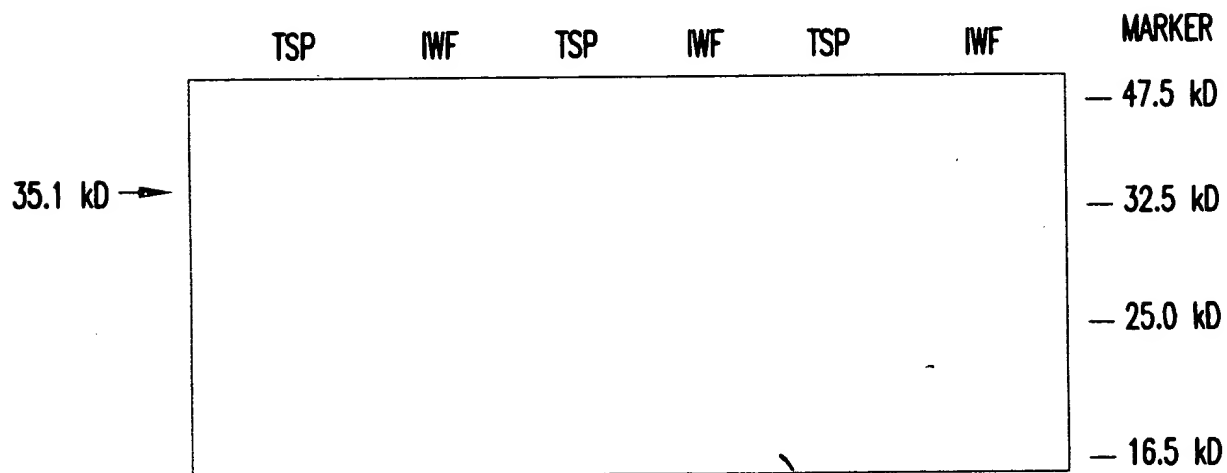


FIG.32B

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